

Title (en)
Orifice cup for manually actuated sprayer

Title (de)
Düseneinsatz für einen handbetätigten Flüssigkeitszerstäuber

Title (fr)
Buse pour un pulvérisateur manuel

Publication
EP 1340548 B1 20090415 (EN)

Application
EP 03251218 A 20030228

Priority
US 8419502 A 20020228

Abstract (en)
[origin: EP1340548A1] A manually actuated pump sprayer (10) comprises a body member (11) which includes closure (12) for mounting the sprayer on a container. A plunger head (13) is mounted on a hollow plunger stem (14). The plunger stem defines a discharge passage (17) which communicates with a transversely extending hollow cylindrical bore (18). A cylindrical probe (19) extends transversely and coaxially with the bore (18). An orifice cup (21) is located in the bore (18). The external profile of the orifice cup (21) is frusto-conical with the larger diameter end located nearer the discharge passage (17). The bore (18) is cylindrical. As a result, a tight frictional engagement is effective between the orifice cup (21) and the wall of the cylindrical bore (18) to retain the orifice cup in place without dislodgement. <IMAGE>

IPC 8 full level
B05B 1/34 (2006.01); **B05B 11/00** (2006.01)

CPC (source: EP KR US)
B05B 1/3436 (2013.01 - EP US); **B05B 11/00** (2013.01 - KR)

Cited by
CZ299238B6; KR100952385B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
EP 1340548 A1 20030903; EP 1340548 B1 20090415; AR 038625 A1 20050119; AT E428506 T1 20090515; AU 2003200669 A1 20030911; AU 2003200669 B2 20050428; BR 0300512 A 20040810; BR 0300512 B1 20121030; CA 2419619 A1 20030828; CA 2419619 C 20091124; CN 1315582 C 20070516; CN 1440839 A 20030910; CZ 2003586 A3 20040512; CZ 299238 B6 20080528; DE 60327127 D1 20090528; ES 2339345 T3 20100519; HK 1058908 A1 20040611; HU 0300513 D0 20030528; HU P0300513 A2 20040830; JP 2004122101 A 20040422; JP 4021343 B2 20071212; KR 100952385 B1 20100414; KR 20030071561 A 20030903; MX PA03001862 A 20030904; MY 126681 A 20061031; NZ 524425 A 20031031; PL 201410 B1 20090430; PL 358942 A1 20030908; SG 108905 A1 20050228; SI 21127 A 20030831; TW 200303792 A 20030916; TW I223610 B 20041111; US 2003160113 A1 20030828; US 6793156 B2 20040921

DOCDB simple family (application)
EP 03251218 A 20030228; AR P030100663 A 20030228; AT 03251218 T 20030228; AU 2003200669 A 20030226; BR 0300512 A 20030228; CA 2419619 A 20030224; CN 03106788 A 20030228; CZ 2003586 A 20030227; DE 60327127 T 20030228; ES 03251218 T 20030228; HK 04101715 A 20040309; HU P0300513 A 20030227; JP 2003052399 A 20030228; KR 20030012332 A 20030227; MX PA03001862 A 20030228; MY PI20030694 A 20030227; NZ 52442503 A 20030226; PL 35894203 A 20030228; SG 200300793 A 20030225; SI 200300050 A 20030226; TW 92104317 A 20030227; US 8419502 A 20020228